QM-7093-01 ENTERPRISE DATA SYSTEMS
EXAM 1 – NOAH L. SCHRICK - 1492657

Instructor: Dr. Ismail Abdulrashid,

Instructions:

In this case study, **QACS_CH02** database needs to be used. You can find the Questions in the textbook: Exercises A-U of the Queen Anne Curiosity Shop

- Submit thru Harvey drop box
- Deliverable: You are expected to submit
  - A single SQL script file (.sql) prepared and saved in SQL Server Management Studio that includes your SQL statements that answer each of the questions in order.
  - This word file that you copied all of your SQL script (no result tables) from your SQL file.
- Each query should start with a comment line that looks like the following (last character corresponding to question number):
  - /* *** EX1-QACS.A *** */
  - This line should follow the SQL statement that is your answer to the particular question (e.g. B, C, D, ...)
- You should include at least one line of white space between your answer SQL statements
- Do not include the result table unless it is said so!
- Check Harvey for the due date!

Please write your solution below:

/* Noah L. Schrick */

/* *** EX1-QACS.A *** */
SELECT *
　　　　FROM CUSTOMER
;

SELECT *
　　　　FROM ITEM
;

SELECT *
　　　　FROM SALE
;

SELECT *
　　　　FROM SALE_ITEM
;

/* *** EX1-QACS.B *** */
SELECT LastName, FirstName, Phone
　　　　FROM CUSTOMER
;

```sql
/* *** EX1-QACS.C *** */

SELECT LastName, FirstName, Phone

        FROM CUSTOMER

                WHERE FirstName LIKE 'John'

;


/* *** EX1-QACS.D *** */

SELECT c.LastName, c.FirstName, c.Phone, s.SaleDate, s.Total

        FROM CUSTOMER c, SALE s

                WHERE c.CustomerID = s.CustomerID AND s.Total > 100

;


/* *** EX1-QACS.E *** */

SELECT LastName, FirstName, Phone

        FROM CUSTOMER

                WHERE FirstName LIKE 'D%'

;


/* *** EX1-QACS.F *** */

SELECT LastName, FirstName, Phone

        FROM CUSTOMER

                WHERE LastName LIKE '%ne%'

;
```

```sql
/* *** EX1-QACS.G *** */

SELECT LastName, FirstName, Phone

        FROM CUSTOMER

                WHERE PHONE LIKE '%56_'

;


/* *** EX1-QACS.H *** */

SELECT MAX(Total) AS MaxSalesTotal, MIN(Total) AS MinSalesTotal

        FROM SALE

;


/* *** EX1-QACS.I *** */

SELECT AVG(Total) AS AvgSalesTotal

        FROM SALE

;


/* *** EX1-QACS.J *** */

SELECT COUNT(*) AS NumCustomers

        FROM CUSTOMER

;


/* *** EX1-QACS.K *** */

SELECT LastName, FirstName

        FROM CUSTOMER

                GROUP BY LastName, FirstName

;
```

```
/* *** EX1-QACS.L *** */

SELECT LastName, FirstName, COUNT(*) AS NameCombo

        FROM CUSTOMER

                GROUP BY LastName, FirstName

;


/* *** EX1-QACS.M *** */

SELECT LastName, FirstName, Phone

        FROM CUSTOMER

                WHERE CustomerID IN

                        (SELECT CustomerID

                                FROM SALE

                                        WHERE Total > 100

                        )

                ORDER BY LastName ASC, FirstName DESC

;


/* *** EX1-QACS.N *** */

SELECT DISTINCT c.LastName, c.FirstName, c.Phone

        FROM CUSTOMER c, SALE s

                WHERE c.CustomerID = s.CustomerID  AND s.Total > 100

                        ORDER BY LastName ASC, FirstName DESC

;
```

```sql
/* *** EX1-QACS.O *** */

SELECT DISTINCT c.LastName, c.FirstName, c.Phone
    FROM CUSTOMER c JOIN SALE s
        ON c.CustomerID = s.CustomerID
            WHERE s.Total > 100
                ORDER BY LastName ASC, FirstName DESC
;


/* *** EX1-QACS.P *** */

SELECT LastName, FirstName, Phone
    FROM CUSTOMER
        WHERE CustomerID IN
            (SELECT CustomerID
             FROM SALE
             WHERE SaleID IN
                 (SELECT SaleID
                  FROM SALE_ITEM
                  WHERE ItemID IN
                      (SELECT ItemID
                       FROM ITEM
                       WHERE ItemDescription LIKE 'Desk Lamp'
                      )
                 )
            )
        ORDER BY LastName ASC, FirstName DESC
;
```

```sql
/* *** EX1-QACS.Q *** */

SELECT c.LastName, c.FirstName, c.Phone

        FROM CUSTOMER c, SALE s, Sale_ITEM si, ITEM i

                WHERE c.CustomerID = s.CustomerID

                 AND  s.SaleID = si.SaleID

                 AND  si.ItemID = i.ItemID

                 AND  i.ItemDescription LIKE 'Desk Lamp'

                        ORDER BY LastName ASC, FirstName DESC

;


/* *** EX1-QACS.R *** */

SELECT c.LastName, c.FirstName, c.Phone

        FROM CUSTOMER c JOIN SALE s ON c.CustomerID = s.CustomerID

         JOIN Sale_ITEM si ON s.SaleID = si.SaleID

         JOIN ITEM i ON si.ItemID = i.ItemID

                WHERE i.ItemDescription LIKE 'Desk Lamp'

                        ORDER BY LastName ASC, FirstName DESC

;
```

```sql
/* *** EX1-QACS.S *** */

SELECT c.LastName, c.FirstName, c.Phone

    FROM CUSTOMER c JOIN SALE s ON c.CustomerID = s.CustomerID

    JOIN Sale_ITEM si ON s.SaleID = si.SaleID

        WHERE si.ItemID IN

            (SELECT ItemID

             FROM ITEM

             WHERE ItemDescription LIKE 'Desk Lamp'

            )

            ORDER BY LastName ASC, FirstName DESC

;


/* *** EX1-QACS.T *** */

SELECT c.LastName, c.FirstName, c.Phone

    FROM CUSTOMER c JOIN SALE s ON c.CustomerID = s.CustomerID

        WHERE s.SaleID IN

            (SELECT SaleID

             FROM SALE_ITEM

             WHERE ItemID IN

                (SELECT ItemID

                 FROM ITEM

                 WHERE ItemDescription LIKE 'Desk Lamp'

                )

            )

            ORDER BY LastName ASC, FirstName DESC

;
```

```
/* *** EX1-QACS.U *** */

SELECT c.LastName, c.FirstName, c.Phone, 'Item' =
        CASE
                WHEN i.ItemDescription = 'Desk Lamp' THEN i.ItemDescription
                ELSE ''
        END
        FROM CUSTOMER c JOIN SALE s ON c.CustomerID = s.CustomerID
         JOIN Sale_ITEM si ON s.SaleID = si.SaleID
         JOIN ITEM i ON si.ItemID = i.ItemID
                ORDER BY 'Item' DESC, LastName ASC, FirstName DESC
;
```